Environmental Health and Safety

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Real Estate Project Engineer

Topics To Be Presented

- Modern Fuel Facilities Construction
- Wawa Fuel Handling Equipment
- Wawa Equipment Maintenance
- Wawa Employee Training and Readiness
- Wawa Emergency Preparedness Contractor
- Environmental, Health & Safety Summary
- Wawa Construction
    - Joint Filler
    - Stormwater Management
        - Storm Inlets
        - Rain Gardens

Modern Fuel Facilities Construction

1988 Federal UST Regulations - 100% Compliance by 1998

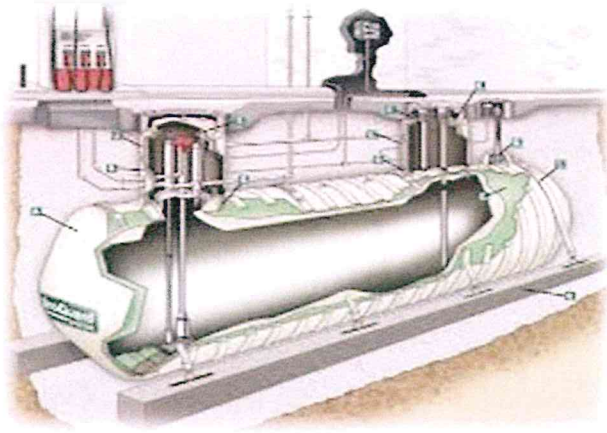
- Corrosion Protection
- Overfill Prevention
- Spill Prevention
- Inventory Control
- Leak Detection
- Financial Responsibility

The Clean Air Act has Mandated Capture of Gasoline Vapors at US Service Stations Since 1990

Wawa Fueling – Best Management Practice

Xerxes Double Walled Fiberglass Tanks

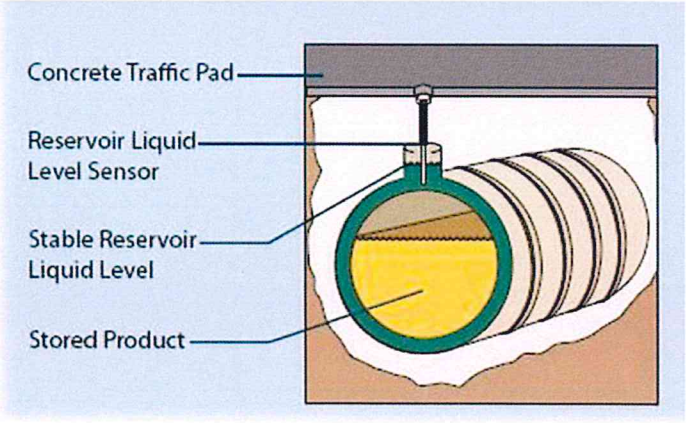
- Brine Filled
- Continuous Electronic Monitoring
- Corrosion Proof
- Warranted for 30 Years



Wawa's Standard Has Exceeded Requirements Since 1996

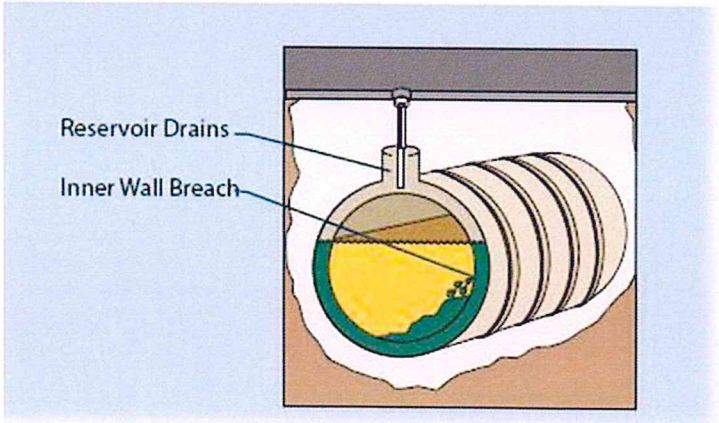
NORMAL CONDITIONS

The reservoir liquid level will be stable if both the inner and outer tank are tight. The reservoir sensor will activate an alarm if the reservoir drains or overfills.



INNER WALL BREACH

Monitor fluid drains into the primary tank causing the reservoir to drain. The petroleum product remains safely contained in the primary tank.



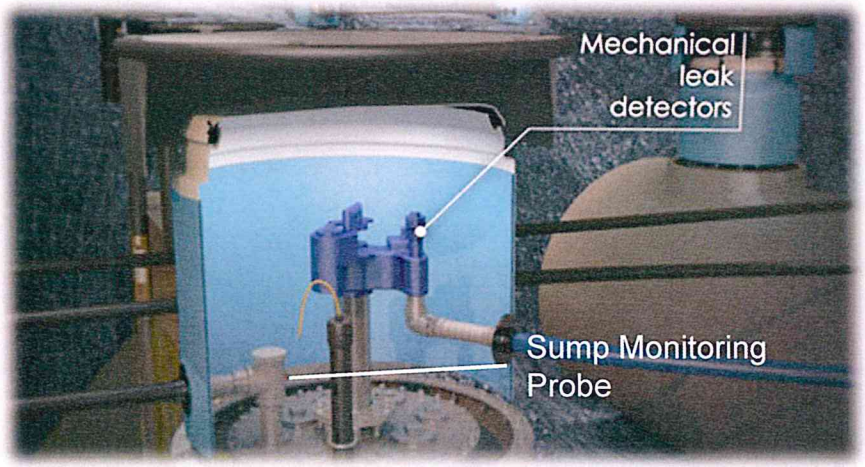
Wawa Fueling – Best Management Practice

Wawa's Standard Has Exceeded Requirements Since 1996

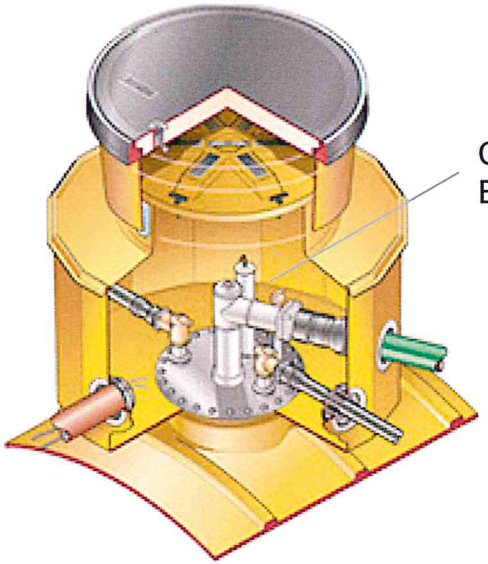
Franklin APT XP Double Walled Lines and Dispenser Containments

- Time Proven Material, Nylon 12
- Twelve Year Track Record
- Contains No Polyethylene
- No Possibility of Delamination
- Biofuel Approved (E85 and Biodiesel)

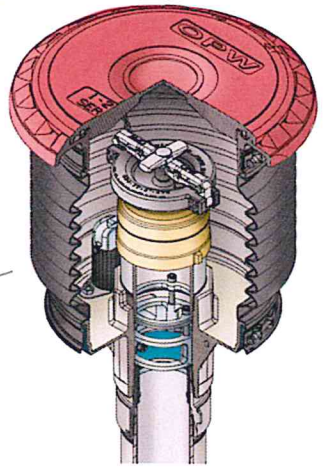
Wawa Fueling – Best Management Practice



Protective Fibrelite Containments

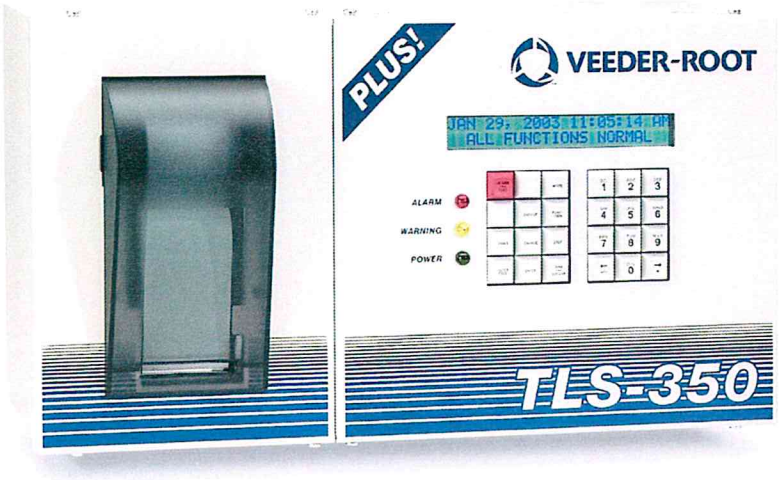


Contained Tank Top Equipment



Spill Prevention Buckets

Wawa Fueling – Best Management Practice



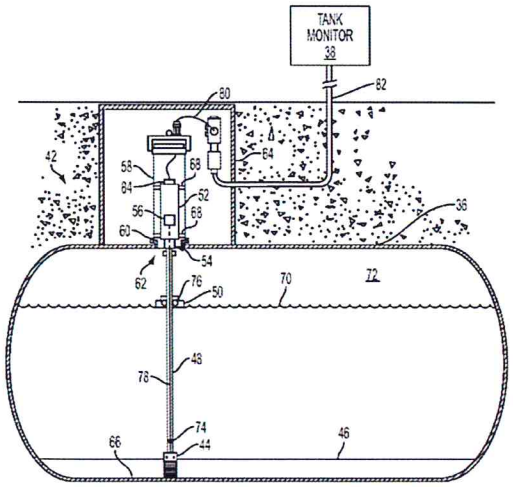


FIG. 2

Veeder Root Fuel System Monitoring - State of the Art

Electronic Automatic Tank Gauging and Line Leak Detection System

Interfaces with Tank Inventory, Line Sensors, Sump Leak Detection Probes, Interstitial Spaces

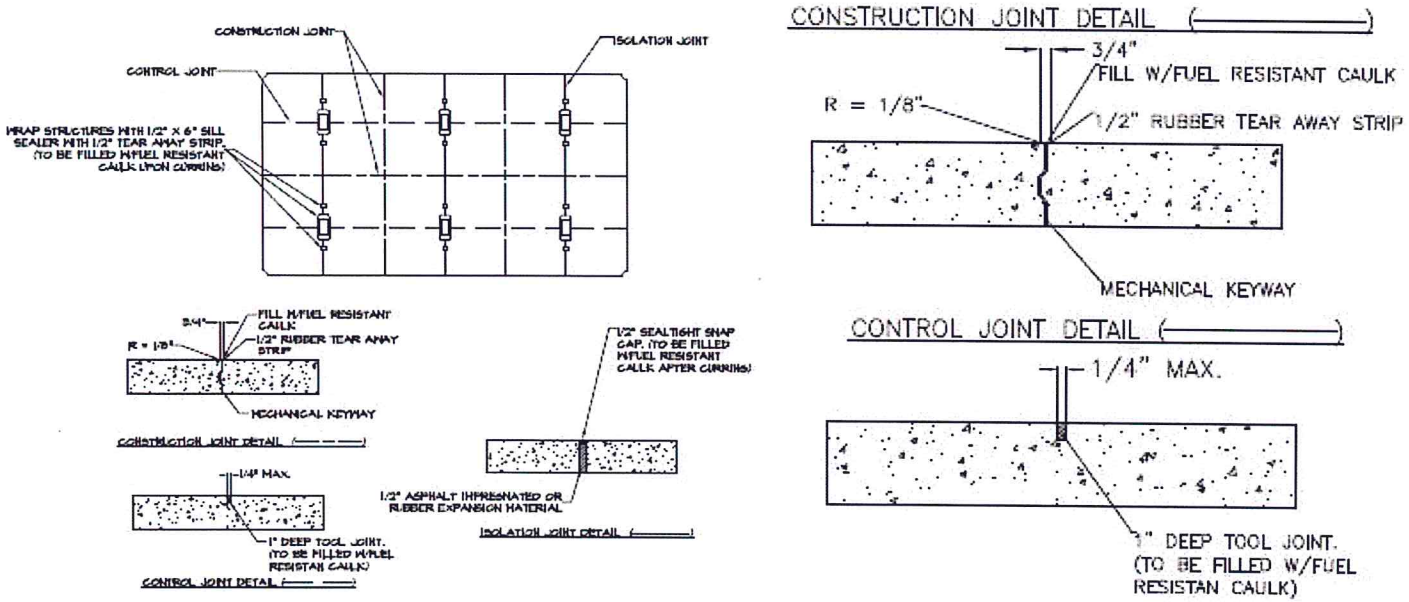
Alarm and Automatic Shut Down if Fault is Detected

Battery Back-up During Power Failures

Franklin Mechanical Line Leak Detector – Offers Redundant Protection

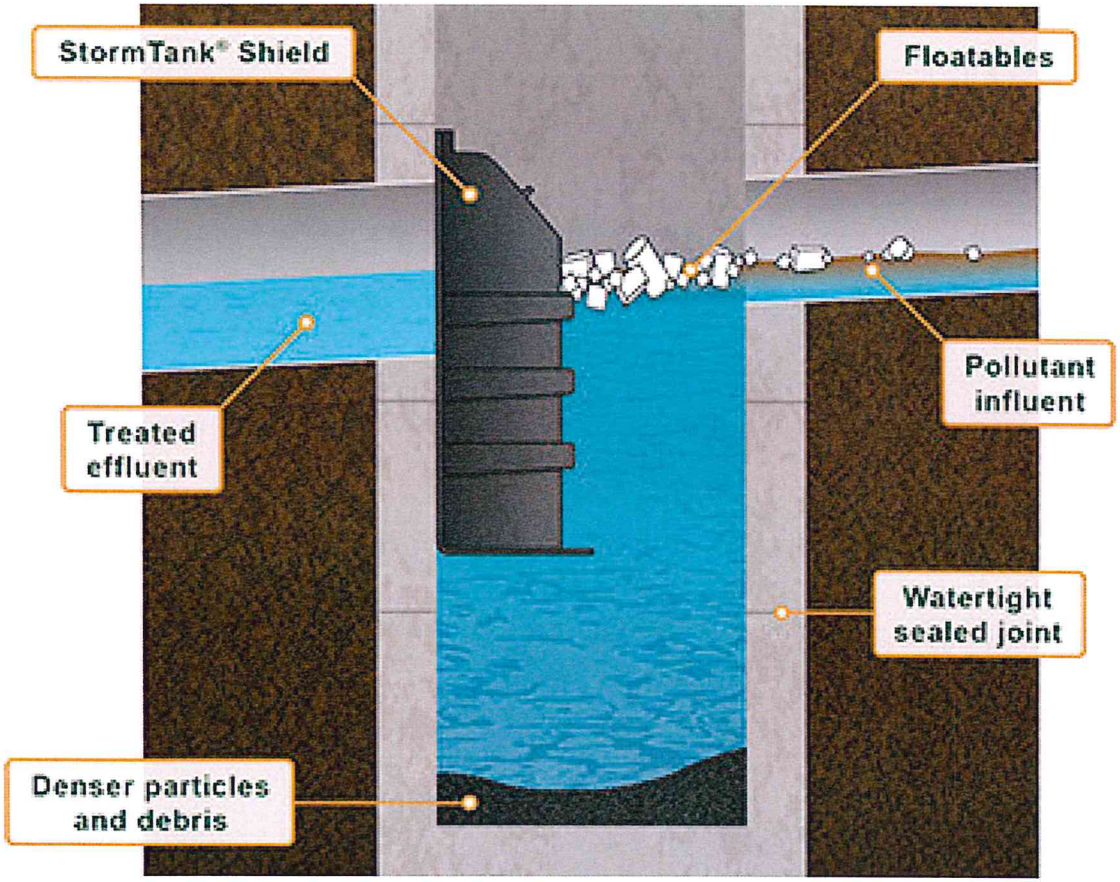
Wawa Fueling - Construction

During Construction Concrete Joints are Filled with Fuel-Resistant Caulk



(B) TYPICAL CANOPY JOINT DETAIL

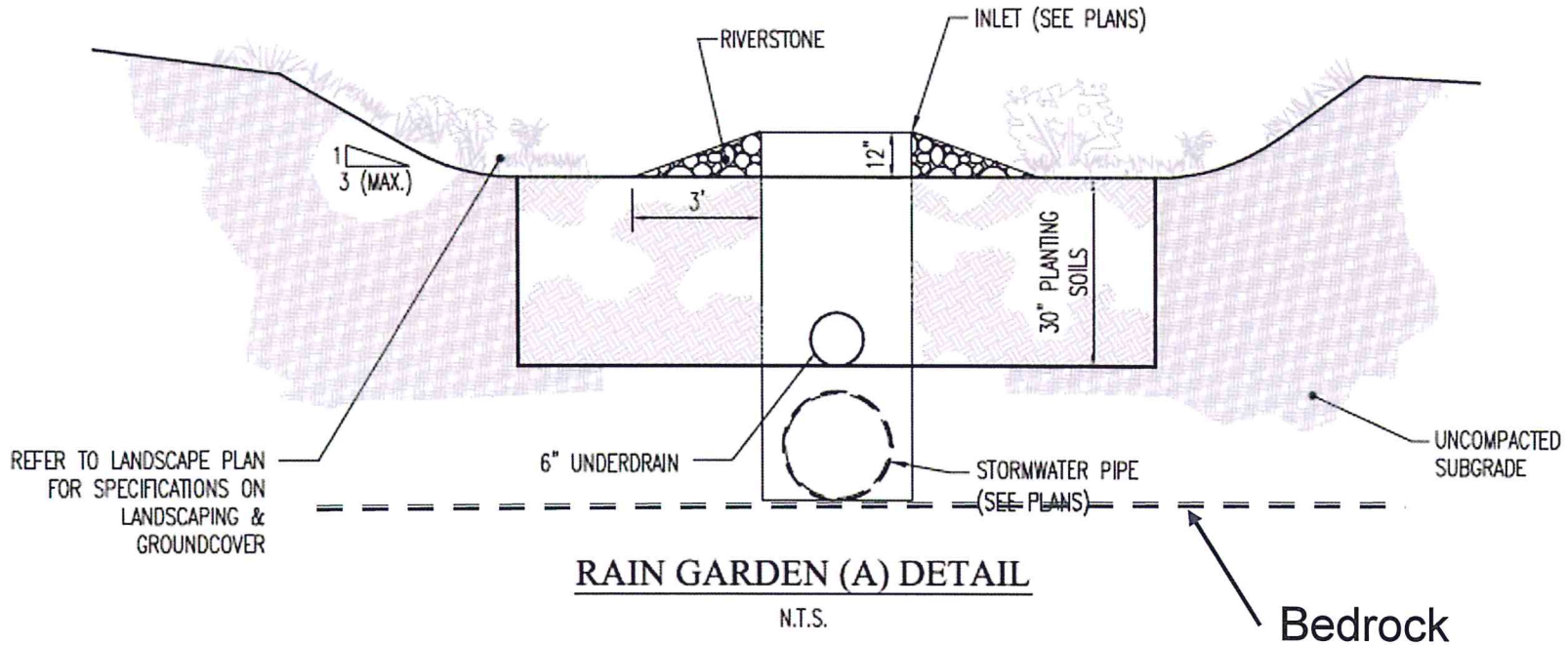
Wawa Storm Water – Best Management Practices



Every Storm Inlet Leading to Impoundments is Protected from Grit, Trash, and Oil Entrainment

Wawa Storm Water - Best Management Practices

Stormwater From Parking Lots Filtered Prior to Percolation



Equipment Maintenance - Best Management Practices

Wawa Equipment Inspections & Preventative Maintenance Schedule

- Fueling Equipment is Continuously Monitored Electronically with an Automatic Shut Down Feature
- Fill Port / Spill Bucket Inspections – Daily
- Sump / Dispenser Inspections – Every 6 Months Post Construction
- Line Leak Detector Testing – Annually
- Hydrostatic Testing of Spill Buckets– Annually
- Sump / Dispenser Pan Hydrostatic Testing – Post Construction and then every 3 years thereafter
- Tank / Line Testing – Post Construction and then every 5 years thereafter
- Fuel Line Secondary Testing – Post Construction

Wawa Training - Best Management Practices

Comprehensive Employee Training Program

- Every Shift Requires Fuel-Certified Employees
  - Prevent Fuel Releases
  - How to Safely Handle Fuel Deliveries
  - How to Properly Handle Self Service Customer Spills
    - Prevent Impact to People or the Environment
    - Small Spills or Large
- "Wawa University" – UST Class B and C Certification Program
- After Training, Employees must Demonstrate Understanding of Proper Fuel Handling Procedures
- 60 Days After Training, a Management SAFETY WALK Verifies the Employee has Retained the Training

Wawa Response - Best Management Practices

Emergency Preparedness Contractor

- Wawa has a 24-Hour Central Call Center
  - Integrated with 911 and Community Haz Mat
- On-Call Designated Responders
  - Lewis Environmental is 30 Miles Away (Royersford)
  - Maximum 2 Hour Response Time for Cleanup
- Fuel Incidents are Priority (1) Work Orders
- All Incidents Require a Fuel Incident Report
- Reported to State and Federal Agencies as Required
- "Lessons Learned" Reviews Prevent Recurrence

Environmental, Health & Safety Summary

- Wawa focuses on incident prevention – Construction and Operation
- The Wawa development will have all stormwater treated prior to discharge into the underground basin system.
- Wawa systems captures 98% of fuel vapors captured – Reduces Levels Below Concern
- Wawa's State-of-the-Art – Construction Specification has Exceeded Requirements Since 1996
- Wawa follows best management practices for environmental protection
- Wawa installs sophisticated fueling equipment - Redundant Safeguards
- Wawa's systems feature electronic monitoring and automatic shut off feature
- Wawa maintains 24-Hour manned incident response line
- Wawa prepares and trains employees with standard operating procedures
- Wawa follows a contracted response within two hours for any emergency